

# PROCESS FOR REMOVING $\text{SO}_3$ / $\text{H}_2\text{SO}_4$ FROM FLUE GASES

## Abstract of Disclosure

A process of using sodium carbonate and sodium bicarbonate solutions to remove  $\text{SO}_3$  and other acidic gases or vapors from a flue gas without substantially decreasing the amount of sulfur dioxide also present in the flue gas. Very limited quantities of such solutions are injected into the flue gas in a manner that achieves a controlled droplet size, such that the solution dries on contact with the flue gas and the resulting dry particles of sodium carbonate/bicarbonate are sufficiently small as to have adequate surface area for reacting with  $\text{SO}_3$ , as well as any  $\text{H}_2\text{SO}_4$  and, to some extent, HCl vapors in the flue gas.

## Figures